Region 4 Inventory and Monitoring Network

Mobile Acoustical Bat Monitoring
Annual Summary Report
2012
UPPER OUACHITA NATIONAL WILDLIFE REFUGE

The Region 4 Inventory and Monitoring Network coordinated acoustical bat monitoring on 39 National Wildlife Refuges and 3 Ecological Services field offices in Regions 2, 3, and 4 in 2012. Surveys will establish baseline inventories of bats at each station and contribute to a landscape-level understanding of bat population trends and habitat associations. Bat call data were collected using Anabat SD2 detectors along 8-30 mile transects following the procedures outlined in the Mobile Bat Acoustical Survey Protocol (USFWS 2012).

This report summarizes bat calls collected along transects at your station in 2012. Calls were classified using EchoClass (v1.1) software, but classification of calls to species is not reported at this time due to ongoing software assessment and validation. Calls were geo-referenced and spatially projected for each survey period to identifiy relative bat use along transects. We will provide a revised annual summary report, transect shapefiles, and spatially referenced data output files once robust classifications to species are available. For surveys in which GPS data were not collected, a summary of the calls is presented without spatial reference.

All submitted call data and survey metadata have been archived and are available on the Mobile Acoustical Bat Monitoring SharePoint site (https://fishnet.fws.doi.net/regions/4/nwrs/IM/bats). Bat call files, GPS data, and survey metadata sheets were reviewed for quality assurance prior to generation of this report. Some submitted data were necessarily excluded due to identified errors in collection processes. All acoustical bat data will be summarized in a comprehensive project annual report following station-level reports.

U.S Fish and Wildlife Service. 2012. Mobile Bat Acoustical Survey Protocol, U.S. Fish and Wildlife Service, Region 4, Division of Refuges

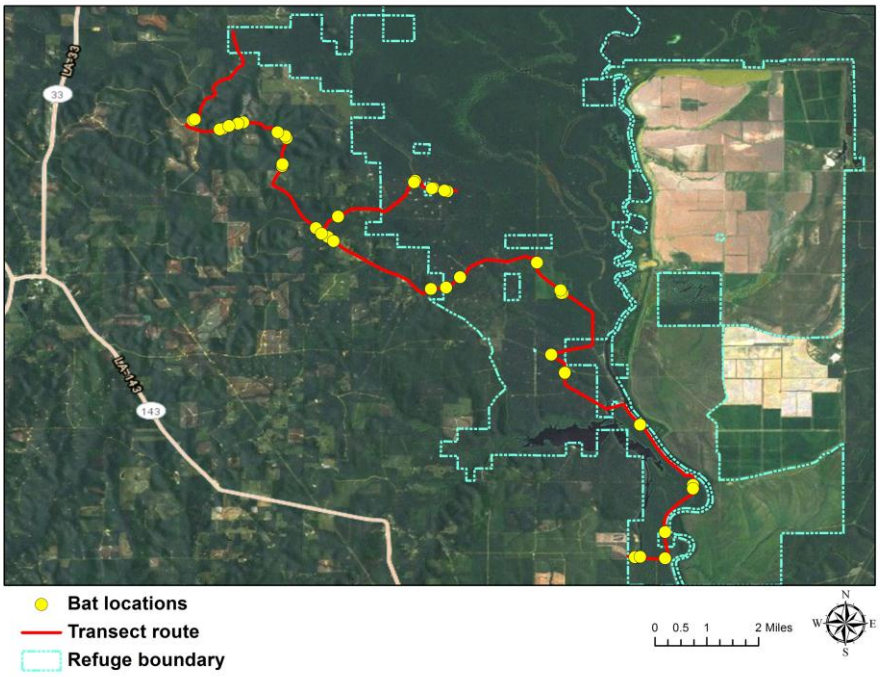
UPPER OUACHITA NATIONAL WILDLIFE REFUGE

Route Name: UocNWR

Survey Date: 6/7/2012 **Survey route completed?** ☑

Number of bat calls recorded: 44 **GPS data collected?** ☑

Total length of transect (miles): 25.06



Observer 1:	Gypsy	Hanks	
Observer 2:			
Start Time:	8:45:00 PM	**End Time:**	9:58:00 PM
Start Temp:	81	**End Temp:**	74
Start Wind:	2	**End Wind:**	2
Start Cloud:	100	**End Cloud:**	100
Start Moon Visible?	☐	**End Moon Visible?**	☐
		Moon Phase:	3/4

Survey Notes:

QA/QC notes: Transect has back-track in middle of the survey that needs to be accounted for prior to analysis; Otherwise QA/QC of survey route data revealed no errors.

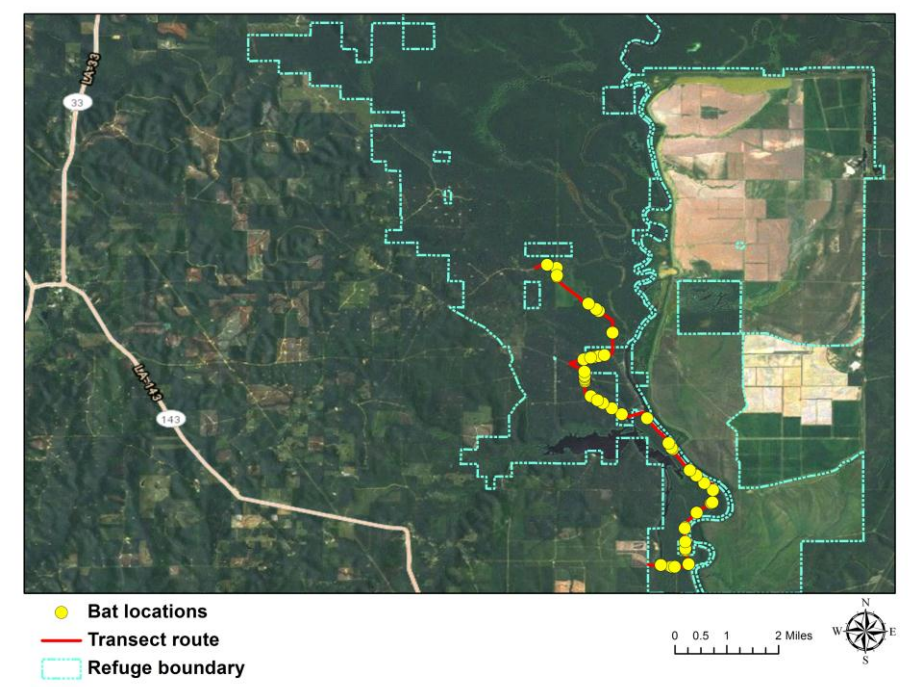
UPPER OUACHITA NATIONAL WILDLIFE REFUGE

Route Name: UocNWR

Survey Date: 6/17/2012 **Survey route completed?** ☑

Number of bat calls recorded: 121 **GPS data collected?** ☑

Total length of transect (miles): 9.29



Observer 1: Gypsy Hanks

Observer 2:

Start Time: 8:49:00 PM **End Time:** 10:00:00 PM

Start Temp: 74 **End Temp:** 71

Start Wind: 0 **End Wind:** 0

Start Cloud: 0 **End Cloud:** 0

Start Moon Visible? ☐ **End Moon Visible?** ☐

Moon Phase: New

Survey Notes:

Collector notes: The moon was new (3% visibility) but there was not an option for that; QA/QC notes: 121 bats detected, however transect appears to have experienced GPS equipment failure after 9 miles of transect. Only 48 of 121 detected bat calls have associated coordinate locations and are displayed on map.

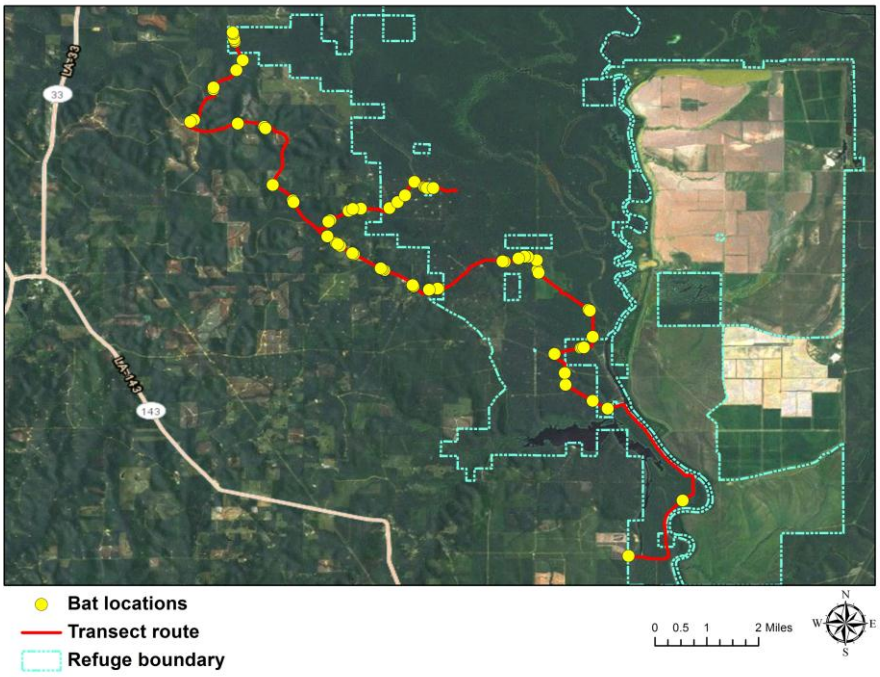
UPPER OUACHITA NATIONAL WILDLIFE REFUGE

Route Name: UocNWR

Survey Date: 7/13/2012 **Survey route completed?** ☑

Number of bat calls recorded: 66 **GPS data collected?** ☑

Total length of transect (miles): 25.11



Observer 1:	Gypsy	Hanks	
Observer 2:			
Start Time:	8:48:00 PM	**End Time:**	10:00:00 PM
Start Temp:	79	**End Temp:**	74
Start Wind:	0	**End Wind:**	0
Start Cloud:	80	**End Cloud:**	80
Start Moon Visible?	☐	**End Moon Visible?**	☐
		Moon Phase:	1/4

Survey Notes:

QA/QC notes: Transect has back-track in middle of the survey that needs to be accounted for prior to analysis; Otherwise QA/QC of survey route data revealed no errors.